

Federal Aviation Administration Detroit Airports District Office Metro Airport Center 11677 South Wayne Road, Ste. 107 Romulus, MI 48174

July 18, 2016

Mr. David Reid, CM CTA, Airport Director Kalamazoo/Battle Creek International Airport 5235 Portage Road Kalamazoo, MI 49002

Kalamazoo/Battle Creek International Airport, Kalamazoo, Michigan Modification of Airport Construction Standards

Dear Mr. Reid:

Enclosed are copies of partially and conditionally approved Modification to Standards (MTS) for the apron construction project at AZO. These MTS request are for the pre-qualification of bidders, construction layout staking, and aggregate base courses, specified under P-208 and P-209 of AC 150/5370-10G. Please note the comments we have provided in the conditional approvals, outlined on Page 3 of each of the documents.

Sincerely,

ORIGINAL SIGNED BY

Marlon D. Peña Program Manager

cc: MDOT Aeronautics

COMPLETE FORM IN CONJUNCTION WITH THE USER GUIDE

| BACKGROUND | | | |
|--|--|-------------------------|----------------------------------|
| AIRPORT: Kalamazoo/Battle Creek International Airport | 2. LOCATION (CITY,STATE): Kalamazoo, | MI | 3. LOC ID: AZO |
| 4. EFFECTED RUNWAY/TAXIWAY: General Aviation and Commercial Aprons | 5. APPROACH (EACH RUNWAY): N/A PIR NPI VISUAL | 6. AIRPORT REF. | CODE (ARC): C-III |
| 7. DESIGN AIRCRAFT (EACH RUNWAY/T | AXIWAY): General aviation apron is B-II and co | ommercial apron is C-II | I. |
| | | | |
| MODIFICATION OF STANDARI 8. TITLE OF STANDARD(S) BEING MODII Airport | OS FIED (CITE REFERENCE DOCUMENT): AC I | 50/5370-10G Standards | s for Specifying Construction of |
| 9. STANDARD/REQUIREMENT: 20-02 Qualification of bidders | | | |
| 10. DESCRIPTION OF PROPOSED MODIFICATION Replace 20-02 requirements in their County responsible bidder system. T | ICATION: entirety will be replaced with the MDO' This revision will make that the only opt | Γ prequalification s | system and Kalamazoo |
| takes into account both fiscal and qua | zoo County responsible bidder system a alification requirements. | | |
| 12. DISCUSS ALL VIABLE ALTERNATIV Only MDOT prequalification system Unaltered FAA section 20-02. | | | |
| 13. ASSURANCE THAT MTS WILL PROV | VIDE AS OUTLINED IN THE 'USER GUIDE': | | |
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| ATTACH ADDIT | TIONAL SHEETS AS NECESSARY | - INCLUDE SKE | TCH/PLAN |

14. Skip to Question 15 if request is <u>not</u> for a Modification To <u>Material</u> Standards or <u>Construction</u> Methods.

| | CHECK WHEN APPLICABLE | | | | |
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| | Modifications to materials standards is requested because locally available materials cannot meet the requirements of that | | | | |
| | Modifications to construction methods standards will result in cost savings and/or greater efficiency. | | | | |
| | Bids have already been received for t | his project. | | | |
| IF ANY | OF THE ABOVE IS CHECKED PLEASE PRO | VIDE ADDITIONAL DETAILS. | | | |
| county | This modification will allow the airport and county to continue with the qualification system that is currently in place for the state and county. It will allow the sponsor to have qualified bidders in numerous construction categories vetted for qualification and financial requirements. | | | | |
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| 15. SI | GNATURE OF ORIGINATOR: | 16. PRINTED NAME OF ORIGINATOR | 17. DATE | | |
| \ | you mid | David Reid | 2/29/16 | | |
| 18. O | 18. ORIGINATOR'S ORGANIZATION: 19. TELEPHONE 20. E-MAIL | | | | |
| Kalar | mazoo/Battle Creek International Airport | (269) 388-3690 | dereid@kalcounty.com | | |
| 21. E | DATE OF LATEST FAA SIGNED ALP: | • | · | | |
| Augu | ıst 28, 2013 | | | | |

| | BELOW IS TO BE C | | | |
|--|--|-------------------|----------------------|--------------------|
| 22. ADO RECOMMENDATION: | 23. SIGNATU | | | 7/18/16 |
| CONDITIONAL AT | PPROVAL // | lach D | . Fes | 7/18/16 |
| 25. FAA DIVISIONAL REVIEW (AT, AF, | | | | |
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| ROUTING SYMBOL | SIGNATURE | DATE | CONCUR | NON-CONCUR |
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| COMMENTS: | | | | |
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| 26. AIRPORTS' DIVISION FINAL ACT | ION: | | | |
| 20.7IIII ONTO DITIONO | | | | |
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| П | | | | П |
| FOR CONTRACTOR AND A SERVICE | | AL APPROVAL | | |
| DATE: | SKRATURE: | | TITLE | |
| 7-18-2016 | 1/2 Cayfre | leff | MANAGER, D | ET ADO |
| CONDITIONS OF APPROVAL: | | | , | |
| Conditional Approval ba | sed on the FAA's forth | coming appro | oval of this section | n of the State of |
| Michigan's on-going req Airport Sponsor must er | uest for the developm nsure a firm (including | ent of State S | contractors) that | is not on the |
| Michigan pre-qualified li | st has adequate oppo | rtunity to become | ome qualified pri | or to bid opening, |
| which ensures fair and | open competition. | | | |
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COMPLETE FORM IN CONJUNCTION WITH THE USER GUIDE

| BACKGROUND | | | |
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| AIRPORT: Kalamazoo/Battle Creek International Airport | 2. LOCATION (CITY,STATE): Kalamazoo, M | 11 | 3. LOC ID: AZO |
| 4. EFFECTED RUNWAY/TAXIWAY: General Aviation and Commercial Aprons | 5. APPROACH (EACH RUNWAY): N/A PIR NPI VISUAL | 6. AIRPORT REF. CO | DE (ARC): C-III |
| 7. DESIGN AIRCRAFT (EACH RUNWAY/T | AXIWAY): General aviation apron is B-II and cor | nmercial apron is C-III. | |
| MODIFICATION OF STANDARD | S | | |
| 8. TITLE OF STANDARD(S) BEING MODIF airports | IED (CITE REFERENCE DOCUMENT): AC 15 | 0/5370-10G Standards fo | r specifying construction of |
| 9. STANDARD/REQUIREMENT: 50-06 Cons | struction layout and staking | | |
| currently required. The Contractor wi | ineer Staking. The Engineer will retain t Il remain responsible for replacing dama OT BE MET: | aged stakes. | |
| The engineer will be responsible for a staking in Michigan is as follows: | Ill staking requirements on the project. T | he contractual requi | rements for engineer |
| out the job, setting benchmarks and g of runway and taxiway lighting and n | construction surveying required to accorrade stakes, taking cross section elevation avigational aids. The field method of stational according to comply | ons, and laying out thaking is to be determ | he location and elevation ined by the Consultant, as |
| If applicable, permanent runway cent the runway alignment control points, and installation of these markers mus | erline monuments and approach surface and approach surface locations set by th t be shown in the construction plans. | markers shall be pla e Consultant. Requi | aced by the contractor, at rements for the locations |
| 12. DISCUSS ALL VIABLE ALTERNATIVE There are only two viable alternative | es: s for this section, contractor or engineer | staking for construc | tion layout. |
| | | | |
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| 13 ASSURANCE THAT MTS WILL PROVIDE AS OUTLINED IN THE 'USER GUIDE': The MTS will not affect the quality of the project, but rather only the party that is completing the construction layout and staking. |
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| ATTACH ADDITIONAL CHEETS AS NECESSADY. INCLUDE SVETCH/DLAN |

| | CHECK WHEN APPLICABLE |
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| | Modifications to materials standards is requested because locally available materials cannot meet the requirements of that standard. |
| 100 | Modifications to construction methods standards will result in cost savings and/or greater efficiency. |
| | Bids have already been received for this project. |
| ANY | OF THE ABOVE IS CHECKED PLEASE PROVIDE ADDITIONAL DETAILS. |
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| 15. SIGNATURE OF ORIGINATOR: | 16. PRINTED NAME OF ORIGINATOR | 17. DATE |
|---|--------------------------------|----------------------|
| Gumino | David Reid | 2/29/16 |
| 18. ORIGINATOR'S ORGANIZATION: | 19. TELEPHONE | 20. E-MAIL |
| Kalamazoo/Battle Creek International Airport | (269) 388-3690 | dereid@kalcounty.com |
| 21. DATE OF LATEST FAA SIGNED ALP: August 28, 2013 | | |
| | | |

| BELOW IS TO BE COMPLETED BY FAA | | | | | |
|--|-----------------------------------|--|---------------|--------------|------------------------------|
| 22. ADO RECOMMENDATION: | APPROVAL | 23, SIGNATURE: | 10 |) | 7/18/16 |
| CONDITIONAL | APPROVAC | 70 lance | 2 62 | ~ | 1118116 |
| 25. FAA DIVISIONAL REVIEW (A | T, AF, FS, etc.): | | | | |
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| ROUTING SYMBOL | SIGNATU | JRE DA | TE | CONCUR | NON-CONCUR |
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| 26. AIRPORTS' DIVISION FINAL | ACTION: | | | | |
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| DATE: | SJØNATURE: | ONDITIONAL APPI | T THE P | ; | |
| 7-18-201 | | Confeeled | 1 Na | NAGET. | DET ADO |
| CONDITIONS OF APPROVAL: | y | - The state of the | | / | |
| Conditional Approval gra | inted based on the f | following: | | | |
| | C | the Fuelmonds of | alina ta ana | us that the | www.will be able to |
| Sponsor allowing the successfully complet | | ew the Engineer's St | aking to ens | ure that the | ey will be able to |
| Successfully complete | e the project. | | | | |
| 2. The FAA's forthcoming | ng approval of this s | section of the State | of Michigan's | on-going r | request for the development |
| of State Standards at pu | iblic use airports. The | ne Airport Sponsor r r Engineer. In addit | nust underst | and this red | quest puts the liability for |
| construction staking on the Owner and their Engineer. In addition, AIP does not participate in costs associated with corrective actions due to survey. This is now the liability the Airport Sponsor is now assuming from the contractor. | | | | | |
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COMPLETE FORM IN CONJUNCTION WITH THE USER GUIDE

| ACKGROUND | | | |
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| AIRPORT: Kalamazoo/Battle Creek nternational Airport | 2. LOCATION (CITY,STATE): Kalamazoo, | MI | 3. LOC ID: AZO |
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| . DESIGN AIRCRAFT (EACH RUNWAY/I | TAXIWAY): General aviation apron is B-II and co | ommercial apron is C- | III. |
| MODIFICATION OF STANDARI | DS | | |
| TITLE OF STANDARD(S) BEING MODI 50/5320-6E Airport Pavement Desi | | | |
| STANDARD/REQUIREMENT: 310. Base Course. | | | |
| | ICATION: with a recycled bituminous aggregate be pavement and existing base course mate | | ase course material will be |
| supplemented or replaced. | | | |
| 12. DISCUSS ALL VIABLE ALTERNATIV The existing base course could be re | VES: emoved and replaced with new P-209 or | P-208 aggregate | base courses. |
| | | | |
| | VIDE AS OUTLINED IN THE 'USER GUIDE': in the specification has been shown in t what was specified in this project. | he FAA Central r | egion to be reliable for |
| A modulus of 30,000 will be used in | n the design. This equates to a CBR of 2 | 0 and a k value o | f 242.55 pci. |
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| | CHECK WHEN APPLICABLE | |
|--|--|--------------------------------------|
| Modifications to materials standards standard. | rds is requested because locally available materials | cannot meet the requirements of that |
| Modifications to construction me | thods standards will result in cost savings and/or gre | eater efficiency. |
| Bids have already been received | for this project. | |
| t is anticipated that the use of a recycled | bituminous aggregate base course will save \$350,00 | 00 over the alternatives discussed. |
| 15. SIGNATURE OF ORIGINATOR: | 16. PRINTED NAME OF ORIGINATOR | 17. DATE |
| ka Mei D | David Reid | 2/29/16 |

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| Kalamazoo/Battle Creek International Airport | (269) 388-3690 | dereid@kalcounty.com |
| 21 DATE OF LATEST FAA SIGNED ALP: | | |
| August 28, 2013 | | |

| BELOW IS TO BE COMPLETED BY FAA | | | | |
|--|---|---|--|--|
| CONCUR, WI CONDITIONS | 23 61 | Mala D | | 6/8/16 |
| 25 FAA DIVISIONAL REVIEW (AT A) | FIS etc.) | | 1 | |
| ROUTING SYMBOL | SIGNATURI | DATE | CONCUR | NON-CONCUR |
| AGL-620 | 44 | 06/13/2016 | WITH CONDITIONS | |
| | | | | |
| COMMENTS | | | | |
| CONDITIONS: 1) ITEM P-207, AS PROPOSE BE FOLLOWED WHICH INC BITUMINOUS PAVEMENT. 2) THE USE OF ITEM P-20 | CLUDES NO MORE THA | AN 50% OF THE MAT | ERIAL CAN BE FROM | DN. ITEM P-207 MUST THE RECYCLED |
| 26 AIRPORTS DIVISION FINAL AC | HON | | | |
| UNICONDICTIONANCE STERRO | CONDI | X ITIONAL APPROVA | L | |
| CONDITIONS OF APPROVAL | SIGNATURE | Kote: | Many | AAS-100 |
| Concur with Regional CON on Commercial Service Apro- | | COMMENTS above t | o approve use on Gener | ral Aviation Apron but not |
| 2) Engineer to verify Detail a resubmit FAARFIELD with a | nd FAARFIELD design actual anticipated thickne | that 16.47 inches of e esses to show complia | xisting granular sub-base nce with CDF of 1 or le | se remains; and if not, |
| During a test section and a evidence that the remaining n to the engineer. | ny other locations indica naterial remains undistu | ated by the Engineer, t rbed or in a compacted | he contractor and engin d condition meeting spe | eer must provide visual cifications and acceptable |
| 4) Although shown to be reli- specific project locations. The | able in FAA Central Reg nerefore to assure materi | gion, product and varia al complies with desig | ation of materials vary b gn parameters the Engin | by both Region and neer must verify modulus |

of 30,000 in a test section/at beginning of construction and elsewhere that Engineer deems necessary throughout recycling

process phase.